

EXPRESS MAIL LABEL NO. EV271023835US  
DATED: 09 JULY 2003

ATTY DOCKET: GEMF 2048-1

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of Inventor:  
**William K. Bischel et al.**

Application No.: \_\_\_\_\_

Filed: 09 July 2003 (herewith)

Title: **Multi-Channel Laser Pump Source for Optical  
Amplifiers**

Group Art Unit: **unknown**  
Examiner: **unknown**

**Customer No. 22470**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.56**

Sir:

It is requested that the information identified in this statement be considered by the Examiner and made of record in the above-identified application. This statement is not intended to represent that a search has been made or that the information cited in the statement is, or is considered to be, material to patentability as defined in 37 C.F.R. 1.56.

Since this is a continuation, divisional or continuation-in-part application, it is understood that the Examiner will consider all information which was considered by the Office in a parent application. MPEP 609.

Enclosed with this statement is a Form PTO-SB08. The Examiner is requested to initial the form and return it to the undersigned in accordance with M.P.E.P. 609.

Copies are not submitted of documents previously submitted by the applicant in parent Application No. 09/784,687 filed 14 February 2001, Attorney Docket No. GEMF 2048-0, from which benefit under 35 U.S.C. 120 is claimed, 37 C.F.R. 1.98(d)(1), with an information disclosure statement submitted in the parent application which complies with the Sept. 8, 2000 or subsequent revision of 37 C.F.R. 1.98(a-c).

This statement should be considered under 37 C.F.R. 1.97(b) because it is being filed within three months of the filing date of an application other than a continued prosecution application under 37 C.F.R. 1.53(d).

**Fee Authorization.** The Commissioner is hereby authorized to charge underpayment of any additional fees or credit any overpayment associated with this communication to Deposit Account No. 50-0869 (GEMF 2048-1). A duplicate copy of this authorization is enclosed.

Respectfully submitted,

HAYNES BEFFEL & WOLFELD LLP

Date: 7/9/2003

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>			<b>Complete if Known</b>	
	<b>Application Number</b>			
	<b>Filing Date</b>	09 July 2003 (herewith)		
	<b>First Named Inventor</b>	William K. Bischel et al.		
	<b>Group Art Unit</b>			
	<b>Examiner Name</b>			
<b>Sheet</b>		<b>Attorney Docket Number</b>	GEMF 2048-1	

U.S. PATENT DOCUMENTS						
Examiner Initials <sup>*</sup>	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
	A21	6,343,171		Yoshimura et al.	01-29-2002	
	A22	6,445,841		Gloeckner et al.	09-03-2002	
	A23	6,456,766		Shaw et al.	09-24-2002	
	A24	6,483,969		Yap et al.	11-19-2002	
	A25					
	A26					
	A27					
	A28					
	A29					
	A30					
	A31					
	A32					
	A33					
	A34					
	A35					
	A36					
	A37					
	A38					
	A39					
	A40					

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	B11							
	B12							
	B13							
	B14							
	B15							
	B16							
	B17							
	B18							
	B19							
	B20							

<b>Examiner Signature</b>	<b>Date Considered</b>
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<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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			Filing Date	09 July 2003 (herewith)
			First Named Inventor	William K. Bischel et al.
			Group Art Unit	
			Examiner Name	
Sheet	1	of	Attorney Docket Number	GEMF 2048-1

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		Number	Kind Code <sup>2</sup> (if known)			
	A1	5,010,587		Eklund	04-23-1991	
	A2	5,179,609		Blonder et al.	01-12-0993	
	A3	5,416,871		Takahashi et al.	05-16-1995	
	A4	5,544,268		Bischel et al.	08-06-1996	
	A5	5,621,837		Yamada et al.	04-15-1997	
	A6	5,985,064		Sato	11-16-1999	
	A7	5,985,685		Lealman et al.	11-16-1999	
	A8	5,999,269		Haugsjaa et al.	12-07-1999	
	A9	6,021,149		Miyazaki et al.	02-01-2000	
	A10	6,049,641		Deacon et al.	04-11-2000	
	A11	6,081,369		Waarts et al.	06-27-2000	
	A12	6,081,638		Zhou	06-27-2000	
	A13	6,088,492		Kaneko et al.	07-11-2000	
	A14	6,129,804		Gaynes et al.	10-10-2000	
	A15	6,169,757		Merritt	01-02-2001	
	A16	6,235,141		Feldman et al.	05-22-2001	
	A17	6,236,773		Butler et al.	05-22-2001	
	A18	6,243,350		Knight et al.	06-05-2001	
	A19	6,298,027		Wilde et al.	10-02-2001	
	A20	6,316,281		Lee et al.	11-13-2001	

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	B1		WO 02/065600		Gemfire Corp.	08-22-2002		
	B2							
	B3							
	B4							
	B5							
	B6							
	B7							
	B8							
	B9							
	B10							

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		Filing Date	09 July 2003 (herewith)	
		First Named Inventor	William K. Bischel et al.	
		Group Art Unit		
		Examiner Name		
Sheet		of	Attorney Docket Number	GEMF 2048-1

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	C1	ARMIENTO, C.A. et al., "Passive coupling of InGaAsP/InP laser array and singlemode fibres using silicon waferboard," Electronics Letters 27(12) (06/10/1991) 1109-1110, IEEE.	
	C2	JACKSON, K.P., et al., "A high-density, four-channel, OEIC transceiver module utilizing planar-processed optical waveguides and flip-chip, solder-bump technology," J. Lightwave Tech 12(7) (July 1994) 1185-1191, IEEE.	
	C3	TAN, QING et al., "Thermosonic Flip-Chip Bonding System with a Self-Planarization Feature Using Polymer," Proceedings of the 48th Electronic Components and Technology Conference (ECTC 1998), 1318-1325, article can be found at	
	C4	WALE, MICHAEL J., et al., "Self-Aligned Flip-Chip Assembly of Photonic Devices with Electrical and Optical Connections," IEEE Transactions on Components, Hybrids and Manufacturing Technology 13(4) (Dec. 1990) 780-786, IEEE.	
	C5	Copy of co-pending application Serial No. 10/336,293 filed 03-Jan-2003 entitled "Packaging and Alignment Methods for Optical Components, and Optical Apparatus Employing Same," which is a continuation of Application No. 09/784,945 filed 14 February 2001.	

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